

Mercer and Summers Counties, West Virginia  
Table H.--Engineering Index Properties

Print date: 06/04/2002

(Absence of an entry indicates that the data were not estimated.)

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

[illegible]



Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
CkF: Cateache-----	0-5	Very stony silt loam	CL, CL-ML, GC, GC-GM	A-4, A-6	---	15-30	70-85	65-80	60-75	45-70	20-40	4-15
	5-23	Channery silty clay loam, very channery silty clay loam	CL, CL-ML, GC, GC-GM	A-2, A-4, A-6	---	0-15	40-85	35-80	30-80	25-70	20-40	4-15
	23-35	Very channery silty clay loam, extremely channery silty clay loam	GC, GC-GM, GP-GC	A-1, A-2, A- 4, A-6	---	0-20	20-60	10-50	10-45	10-40	20-40	4-15
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
Berks-----	0-7	Very stony silt loam	GC, GM, SC, SM	A-2, A-4	---	15-30	40-80	35-70	30-60	25-45	25-36	5-10
	7-28	Shaly loam, very shaly loam, shaly silt loam	GC, GM, SC, SM	A-1, A-2, A-4	---	0-30	40-80	35-70	25-60	20-45	25-36	5-10
	28-35	Shaly loam, very shaly loam, shaly silt loam	GM, SM	A-1, A-2	---	0-40	35-65	25-55	20-40	15-35	24-38	2-10
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
ClD: Caneyville-----	0-6	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-3	90-100	85-100	75-100	60-95	20-35	2-12
	6-10	Silty clay, clay, silty clay loam	CH, CL	A-7	---	0-3	90-100	85-100	75-100	65-100	42-70	20-45
	10-29	Clay, silty clay	CH	A-7	---	0-3	90-100	85-100	75-100	65-100	50-75	30-45
	29-33	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
CnF: Clymer-----	0-9	Loam	ML, SM	A-4	---	0-5	85-100	75-95	60-90	35-85	10-30	NP-9
	9-36	Sandy loam, channery loam, channery clay loam	GC, GM, ML, SM	A-2, A-4	---	0-20	60-95	50-95	45-85	30-60	14-32	NP-9
	36-48	Channery loam, very channery loam, channery sandy loam	GC, GM, GP- GM, SM	A-1, A-2, A- 3, A-4	---	10-30	30-75	25-70	20-60	5-40	14-32	NP-9
	48-52	Weathered bedrock			---	---	---	---	---	---	---	---
Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
CtC: Coolville-----	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0	95-100	90-100	80-100	70-90	24-40	4-12
	8-13	Silty clay loam	CL, ML	A-6, A-7	---	0	95-100	85-100	80-100	75-95	35-50	15-25
	13-43	Clay, silty clay, silty clay loam	CH, CL, MH	A-7	---	0-5	95-100	85-100	80-100	75-95	45-65	20-36
	43-60	Clay, silty clay, shaly silty clay loam	CH, CL, MH	A-7	---	0-5	95-100	85-100	80-100	75-95	45-65	20-36
	48-60	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Latham-----	0-6	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	85-100	75-100	70-100	65-90	20-35	5-12
	6-36	Silty clay, silty clay loam, channery	CH, CL	A-7	---	0-10	85-100	70-95	65-95	60-90	45-65	25-40
	36-40	Weathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
CtD:												
Coolville-----	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0	95-100	90-100	80-100	70-90	24-40	4-12
	8-13	Silty clay loam	CL, ML	A-6, A-7	---	0	95-100	85-100	80-100	75-95	35-50	15-25
	13-43	Clay, silty clay, silty clay loam	CH, CL, MH	A-7	---	0-5	95-100	85-100	80-100	75-95	45-65	20-36
	43-60	Clay, silty clay, shaly silty clay loam	CH, CL, MH	A-7	---	0-5	95-100	85-100	80-100	75-95	45-65	20-36
	48-60	Weathered bedrock			---	---	---	---	---	---	---	---
Latham-----	0-6	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	85-100	75-100	70-100	65-90	20-35	5-12
	6-36	Silty clay, silty clay loam, channery	CH, CL	A-7	---	0-10	85-100	70-95	65-95	60-90	45-65	25-40
	36-40	Weathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
CuF:												
Culleoka-----	0-7	Silt loam	CL, CL-ML, ML	A-4	---	0-5	90-100	85-100	70-100	55-95	15-35	NP-10
	7-29	Channery silt loam, flaggy loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	---	5-25	80-95	75-95	65-95	55-90	20-40	2-20
	33-37	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Gilpin-----	0-6	Very stony silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	10-40	50-90	45-85	35-75	30-70	20-40	4-15
	6-27	Shaly silt loam, channery loam, silty clay loam	CL, CL-ML, GC-GM, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A-4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Jefferson Stony-	0-9	Very stony loam	CL, GM, ML, SM	A-4	---	5-20	65-90	60-90	50-80	40-60	25-35	2-10
	9-37	Channery loam, gravelly clay loam, gravelly sandy clay loam	ML, SC, SM, CL	A-2, A-4, A-6	---	5-20	75-90	70-90	50-80	30-70	15-35	2-15
	37-60	Very channery loam, gravelly clay loam, gravelly sandy clay loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-25	55-75	50-75	35-70	20-60	20-35	2-10
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
DgF: Dekalb-----	0-9	Very stony sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	10-30	50-90	45-80	40-75	20-55	10-32	NP-10
	9-21	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	21-28	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	28-32	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
ErD: Ernest-----	0-9	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-10	85-100	80-100	70-95	60-95	20-40	4-15
	9-24	Silty clay loam, silt loam, channery silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	75-100	70-95	65-90	55-90	25-50	6-22
	24-38	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	38-60	Channery silt loam, silt loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
EuC: Ernest-----	0-9	Very stony silt loam	CL, CL-ML, ML	A-4, A-6	---	3-15	65-80	60-80	55-75	55-70	20-40	4-15
	9-24	Silty clay loam, silt loam, channery silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	75-100	70-95	65-90	55-90	25-50	6-22
	24-38	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	38-60	Channery silt loam, silt loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
Atkins-----	---	---	---	---	---	---	---	---	---	---	---	---
Buchanan Stony--	0-7	Very stony loam	CL, CL-ML, GM, ML	A-4, A-2	---	3-20	50-90	45-75	40-75	30-65	20-35	2-11
	7-26	Gravelly loam, silt loam, gravelly sandy clay loam	CL, GM, ML, SM	A-2, A-4	---	0-20	50-100	45-90	40-90	20-80	20-35	2-15
	26-60	Gravelly loam, loam, channery clay loam	CL, GM, ML, SM	A-2, A-4, A-6	---	0-20	50-100	30-80	30-75	20-60	20-35	2-15

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10						
					inches	inches	4	10	40	200		
	In				Pct	Pct					Pct	
EuD: Ernest-----	0-9	Very stony silt loam	CL, CL-ML, ML	A-4, A-6	---	3-15	65-80	60-80	55-75	55-70	20-40	4-15
	9-24	Silty clay loam, silt loam, channery silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	75-100	70-95	65-90	55-90	25-50	6-22
	24-38	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	38-60	Channery silt loam, silt loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
Buchanan Stony--	0-7	Very stony loam	CL, CL-ML, GM, ML	A-2, A-4	---	3-20	50-90	45-75	40-75	30-65	20-35	2-11
	7-26	Gravelly loam, silt loam, gravelly sandy clay loam	CL, GM, ML, SM	A-2, A-4	---	0-20	50-100	45-90	40-90	20-80	20-35	2-15
	26-60	Gravelly loam, loam, channery clay loam	CL, GM, ML, SM	A-2, A-4, A-6	---	0-20	50-100	30-80	30-75	20-60	20-35	2-15
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
FcD: Frederick-----	0-13	Very gravelly silt loam	GC, GC-GM	A-1, A-2	---	0-15	40-60	35-50	25-35	15-30	20-45	5-25
	13-17	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	17-72	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
FcF: Frederick-----	0-13	Very gravelly silt loam	GC, GC-GM	A-1, A-2	---	0-15	40-60	35-50	25-35	15-30	20-45	5-25
	13-17	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	17-72	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
					Pct	Pct						
	In				Pct	Pct					Pct	
FkC: Frederick-----	0-13	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-5	80-100	75-100	75-95	75-90	15-35	NP-15
	13-17	Silty clay loam, silty clay, clay	CH, MH	A-7	---	0-5	80-100	75-100	70-95	60-90	50-70	20-40
	17-72	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-95	60-85	30-55
FrC: Frederick-----	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-17	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	17-72	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
FrD: Frederick-----	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-17	Gravelly silty clay loam, silty clay, clay	SC, SM, CH, MH	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	17-72	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
FrF: Frederick-----	0-13	Gravelly silt loam	CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-17	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	17-72	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
GaB: Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
GaC: Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
GaD: Gilpin-----	0-6	Silt loam	CL, CL-ML	A-4, A-6	---	0-5	80-95	75-90	70-85	65-80	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
GbC: Gilpin-----	0-6	Shaly silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Berks-----	0-7	Channery silt loam	GC, GM, ML, SC	A-2, A-4	---	0-20	50-80	45-70	40-60	30-55	25-36	5-10
	7-28	Channery loam, very channery loam, channery silt loam	GC, GM, SC, SM	A-1, A-2, A-4	---	0-30	40-80	35-70	25-60	20-45	25-36	5-10
	28-35	Channery loam, very channery loam, channery silt loam	GM, SM	A-2, A-1	---	0-40	35-65	25-55	20-40	15-35	24-38	2-10
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
GbC3: Gilpin-----	0-6	Shaly silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
GbD3: Gilpin-----	0-6	Shaly silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Berks-----	0-7	Channery silt loam	GC, GM, ML, SC	A-2, A-4	---	0-20	50-80	45-70	40-60	30-55	25-36	5-10
	7-28	Channery loam, very channery loam, channery silt loam	GC, GM, SC, SM	A-1, A-2, A-4	---	0-30	40-80	35-70	25-60	20-45	25-36	5-10
	28-35	Channery loam, very channery loam, channery silt loam	GM, SM	A-1, A-2	---	0-40	35-65	25-55	20-40	15-35	24-38	2-10
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---
Other Soils----	---	---	---	---	---	---	---	---	---	---	---	---
GbF: Berks-----	0-7	Channery silt loam	GC, GM, ML, SC	A-2, A-4	---	0-20	50-80	45-70	40-60	30-55	25-36	5-10
	7-28	Channery loam, very channery loam, channery silt loam	GC, GM, SC, SM	A-1, A-2, A-4	---	0-30	40-80	35-70	25-60	20-45	25-36	5-10
	28-35	Channery loam, very channery loam, channery silt loam	GM, SM	A-1, A-2	---	0-40	35-65	25-55	20-40	15-35	24-38	2-10
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---



Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
JsD: Jefferson-----	0-9	Very stony loam	CL, GM, ML, SM	A-4	---	5-20	65-90	60-90	50-80	40-60	25-35	2-10
	9-37	Channery loam, gravelly clay loam, gravelly sandy clay loam	CL, ML, SC, SM	A-2, A-4, A-6	---	5-20	75-90	70-90	50-80	30-70	15-35	2-15
	37-60	Very channery loam, gravelly clay loam, gravelly sandy clay loam	GC-GM, GM, ML, SM	A-2, A-4, A-1	---	5-25	55-75	50-75	35-70	20-60	20-35	2-10
JsF: Jefferson-----	0-9	Very stony loam	CL, GM, ML, SM	A-4	---	5-20	65-90	60-90	50-80	40-60	25-35	2-10
	9-37	Channery loam, gravelly clay loam, gravelly sandy clay loam	CL, ML, SC, SM	A-2, A-4, A-6	---	5-20	75-90	70-90	50-80	30-70	15-35	2-15
	37-60	Very channery loam, gravelly clay loam, gravelly sandy clay loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-25	55-75	50-75	35-70	20-60	20-35	2-10
Ka: Kanawha-----	0-8	Fine sandy loam	SC-SM, SM, CL-ML, ML	A-2, A-4	---	0	80-100	75-100	45-85	25-55	15-25	NP-5
	8-13	Fine sandy loam, silt loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0	80-100	75-100	50-100	30-90	20-35	2-12
	13-54	Loam, sandy clay loam, clay loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0	80-100	75-100	60-100	25-80	20-40	3-15
	54-60	Fine sandy loam, gravelly fine sandy loam, sandy clay loam	CL, ML, SC, SM	A-2, A-4, A-6	---	0	60-100	55-100	40-95	20-60	20-35	2-12

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
LdF: Lehew-----	0-10	Extremely stony sandy loam	CL-ML, GM, ML, SM	A-2, A-4	---	20-50	50-90	45-80	40-75	20-55	15-30	NP-7
	10-27	Very channery sandy loam, channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	5-40	45-75	30-65	20-55	10-40	15-30	NP-7
	27-33	Very channery sandy loam, very channery fine sandy loam, channery loam	GC-GM, GM, SC-SM, SM	A-2, A-4	---	10-50	45-75	30-65	20-55	10-40	15-30	NP-7
	33-37	Weathered bedrock			---	---	---	---	---	---	---	---
Dekalb-----	0-9	Extremely stony sandy loam	CL-ML, GM, ML, SM	A-1, A-2, A-4	---	15-30	50-90	45-80	40-75	20-55	10-32	NP-10
	9-21	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4	---	5-40	50-85	40-75	40-75	20-55	15-32	NP-9
	21-28	Channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	---	10-50	45-85	25-75	20-65	15-40	15-32	NP-9
	28-32	Unweathered bedrock			---	---	---	---	---	---	---	---
Other Soils----	---	---	---	---	---	---	---	---	---	---	---	---
LlB: Lily-----	0-8	Loam	CL-ML, ML	A-4	---	0-5	90-100	85-100	70-95	55-80	15-35	NP-10
	8-25	Clay loam, sandy clay loam, loam	CL, ML, SC, SM	A-4, A-6	---	0-5	90-100	85-100	75-100	40-80	15-35	3-15
	25-30	Sandy clay loam, clay loam, gravelly sandy clay loam	CL, ML, SC, SM	A-1-b, A-2, A-4, A-6	---	0-10	65-100	50-100	40-95	20-75	15-35	3-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
MgB: Monongahela-----	0-8	Silt loam	CL-ML, ML, SC-SM, SM	A-4	---	0-5	90-100	85-100	75-100	45-90	20-35	1-10
	8-21	Silt loam, clay loam, gravelly loam	CL, CL-ML, ML	A-4, A-6	---	0-15	90-100	80-100	75-100	70-90	20-40	5-15
	21-60	Silt loam, sandy clay loam, gravelly loam	CL, ML, SC, SM	A-4, A-6	---	0-10	80-100	60-100	55-95	45-95	20-40	3-15
	60-64	Silt loam, clay loam, gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	---	10-20	75-100	60-90	60-85	40-85	20-40	1-15
MgC: Monongahela-----	0-8	Silt loam	CL-ML, ML, SC-SM, SM	A-4	---	0-5	90-100	85-100	75-100	45-90	20-35	1-10
	8-21	Silt loam, clay loam, gravelly loam	CL, CL-ML, ML	A-4, A-6	---	0-15	90-100	80-100	75-100	70-90	20-40	5-15
	21-60	Silt loam, sandy clay loam, gravelly loam	CL, ML, SC, SM	A-4, A-6	---	0-10	80-100	60-100	55-95	45-95	20-40	3-15
	60-64	Silt loam, clay loam, gravelly sandy loam	CL, ML, SC, SM	A-4, A-6	---	10-20	75-100	60-90	60-85	40-85	20-40	1-15
MsD: Murrill-----	0-11	Very stony loam	CL, ML, SC, SC-SM	A-2, A-4, A-6	---	3-15	65-80	50-70	45-65	30-65	20-40	3-15
	11-41	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	25-50	5-25
	41-72	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
MsF:												
Murrill-----	0-11	Very stony loam	CL, ML, SC, SC-SM	A-2, A-4, A-6	---	3-15	65-80	50-70	45-65	30-65	20-40	3-15
	11-41	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	25-50	5-25
	41-72	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40
MuC:												
Murrill-----	0-11	Channery silt loam	CL, GM, ML, SC-SM	A-6, A-2, A-4	---	0-5	65-80	55-70	45-65	30-65	20-40	3-15
	11-41	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	20-50	5-25
	41-72	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40
MuD:												
Murrill-----	0-11	Channery silt loam	CL, GM, ML, SC-SM	A-2, A-4, A-6	---	0-5	65-80	55-70	45-65	30-65	20-40	3-15
	11-41	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	20-50	5-25
	41-72	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Oa:												
Orrville-----	0-10	Silt loam	CL, CL-ML, ML	A-4	---	0	100	90-100	85-100	60-80	20-35	3-10
	10-31	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	---	0-2	95-100	75-100	70-95	50-90	20-40	2-16
	31-60	Stratified gravelly loamy sand to silt loam	CL, ML, SC, SM	A-1, A-2, A-4	---	0-2	95-100	65-100	40-85	15-75	15-35	NP-10
Holly-----	---	---	---	---	---	---	---	---	---	---	---	---
Ob:												
Orrville-----	0-10	Silt loam	CL, CL-ML, ML	A-4	---	0	100	90-100	85-100	60-80	20-35	3-10
	10-31	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	---	0-2	95-100	75-100	70-95	50-90	20-40	2-16
	31-60	Stratified gravelly loamy sand to silt loam	CL, ML, SC, SM	A-1, A-2, A-4	---	0-2	95-100	65-100	40-85	15-75	15-35	NP-10
Lobdell-----	0-10	Loam	CL, CL-ML, ML	A-4	---	0	95-100	90-100	80-100	65-90	20-30	NP-8
	10-35	Loam, silt loam	ML	A-4	---	0	90-100	80-100	70-95	55-85	20-35	NP-10
	35-60	Stratified sandy loam to silt loam	CL, CL-ML, ML, SM	A-4	---	0	90-100	80-100	65-85	40-80	15-35	NP-10
Other Soils----	---	---	---	---	---	---	---	---	---	---	---	---
Holly-----	---	---	---	---	---	---	---	---	---	---	---	---
ShB:												
Shouns-----	0-8	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0	80-100	75-100	65-95	55-90	15-30	3-12
	8-48	Silt loam, loam	CL, CL-ML, ML	A-4, A-6	---	0	80-100	75-100	70-95	60-90	15-35	5-15
	48-60	Silty clay loam, clay loam	CL, ML	A-4, A-6	---	0	80-100	75-100	70-95	60-90	25-40	8-17
	60-64	Silty clay loam, clay loam, shaly clay loam	CL, ML	A-6, A-7	---	10-25	75-100	65-90	60-85	50-75	30-45	10-20
	76-80	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

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Table H.--Engineering Index Properties--Continued

[illegible]

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
U3: Udorthents-----	---	---	---	---	---	---	---	---	---	---	---	---
Wet Minesoil----	---	---	---	---	---	---	---	---	---	---	---	---
U4: Udorthents-----	---	---	---	---	---	---	---	---	---	---	---	---
Wet Minesoil----	---	---	---	---	---	---	---	---	---	---	---	---
Ud: Psammments-----	---	---	---	---	---	---	---	---	---	---	---	---
Udifluvents-----	---	---	---	---	---	---	---	---	---	---	---	---
UeC: Urban Land-----	0-6				---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Ernest-----	0-9	Silt loam	CL, CL-ML, ML	A-4, A-6	---	0-10	85-100	80-100	70-95	60-95	20-40	4-15
	9-24	Silty clay loam, silt loam, channery silt loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	75-100	70-95	65-90	55-90	25-50	6-22
	24-38	Channery silt loam, channery loam, silty clay loam	CL, GM, ML, SC	A-4, A-6, A-7	---	0-20	70-95	55-95	55-90	45-90	20-45	4-18
	38-60	Channery silt loam, silt loam, silty clay loam	CL, GM, ML, SC	A-7, A-4, A-6	---	0-20	70-95	45-95	45-90	40-90	25-50	6-22
UfD: Urban Land-----	0-6				---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Frederick-----	0-13		CL, GC, GM, ML	A-4, A-6	---	0-10	60-80	50-75	40-70	35-65	15-35	NP-15
	13-17	Gravelly silty clay loam, silty clay, clay	CH, MH, SC, SM	A-7	---	0-5	80-100	50-95	45-90	35-85	50-70	20-40
	17-24	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	60-85	60-85	30-50
	24-72	Clay, silty clay	CH	A-7	---	0-5	90-100	85-100	70-100	50-75	50-75	25-45
	72-76				---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
UgE: Urban Land-----	0-6				---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Gilpin-----	0-6	Shaly silt loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-90	45-85	35-75	30-70	20-40	4-15
	6-27	Channery loam, shaly silt loam, silty clay loam	CL, CL-ML, GC, SC	A-2, A-4, A-6	---	0-30	50-95	45-90	35-85	30-80	20-40	4-15
	27-35	Channery loam, very channery silt loam, very shaly silty clay loam	GC, GC-GM	A-1, A-2, A- 4, A-6	---	0-35	25-55	20-50	15-45	15-40	20-40	4-15
	35-39	Unweathered bedrock			---	---	---	---	---	---	---	---
Berks-----	0-7	Channery silt loam	GC, GM, ML, SC	A-2, A-4	---	0-20	50-80	45-70	40-60	30-55	25-36	5-10
	7-28	Channery loam, very channery loam, channery silt loam	GC, GM, SC, SM	A-1, A-2, A-4	---	0-30	40-80	35-70	25-60	20-45	25-36	5-10
	28-35	Channery loam, very channery loam, channery silt loam	SM, GM	A-1, A-2	---	0-40	35-65	25-55	20-40	15-35	24-38	2-10
	35-39	Weathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10	3-10	4	10	40	200		
					inches	inches						
	In				Pct	Pct					Pct	
UIC: Urban Land-----	0-6				---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Lily-----	0-8	Loam	CL-ML, ML	A-4	---	0-5	90-100	85-100	70-95	55-80	15-35	NP-10
	8-25	Clay loam, sandy clay loam, loam	CL, ML, SC, SM	A-4, A-6	---	0-5	90-100	85-100	75-100	40-80	15-35	3-15
	25-30	Sandy clay loam, clay loam, gravelly sandy clay loam	CL, ML, SC, SM	A-1-b, A-2, A-4, A-6	---	0-10	65-100	50-100	40-95	20-75	15-35	3-15
	30-34	Unweathered bedrock			---	---	---	---	---	---	---	---
UmD: Urban Land-----	0-6				---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Murrill-----	0-11	Channery silt loam	CL, GM, ML, SC-SM	A-2, A-4, A-6	---	0-5	65-80	55-70	45-65	30-65	20-40	3-15
	11-41	Channery silty clay loam, channery sandy clay loam, channery clay loam	CL, CL-ML, ML	A-4, A-6, A-7	---	0-15	65-85	60-70	55-65	50-65	20-50	5-25
	41-72	Clay loam, clay, channery clay loam	CH, CL, MH	A-6, A-7	---	0-20	80-100	65-100	60-100	55-100	35-75	20-40
Uo: Urban Land-----	0-6				---	---	---	---	---	---	---	---
Other Soils-----	---	---	---	---	---	---	---	---	---	---	---	---
Orrville-----	0-10	Silt loam	CL, CL-ML, ML	A-4	---	0	100	90-100	85-100	60-80	20-35	3-10
	10-31	Silt loam, loam, silty clay loam	CL, CL-ML, ML	A-4, A-6	---	0-2	95-100	75-100	70-95	50-90	20-40	2-16
	31-60	Stratified gravelly loamy sand to silt loam	CL, ML, SC, SM	A-1, A-2, A-4	---	0-2	95-100	65-100	40-85	15-75	15-35	NP-10

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
	In				Pct	Pct					Pct	
Lobdell-----	0-10	Loam	CL, CL-ML, ML	A-4	---	0	95-100	90-100	80-100	65-90	20-30	NP-8
	10-35	Loam, silt loam	ML	A-4	---	0	90-100	80-100	70-95	55-85	20-35	NP-10
	35-60	Stratified sandy loam to silt loam	CL, CL-ML, ML, SM	A-4	---	0	90-100	80-100	65-85	40-80	15-35	NP-10
W: Water-----	---	---	---	---	---	---	---	---	---	---	---	---
WeC: Westmoreland----	0-9	Silt loam	CL, ML	A-4, A-6	---	0	85-100	80-100	75-95	60-95	15-35	NP-10
	9-36	Silty clay loam, channery loam, shaly silt loam	CL, GC, GM, ML	A-4, A-6, A-7	---	0-15	65-100	55-95	50-90	45-85	22-45	2-20
	36-46	Very channery loam, very channery silt loam, shaly silty clay loam	GC, GM, SC, SM	A-1, A-2, A- 4, A-6	---	0-20	25-95	20-95	15-90	15-80	20-40	2-20
	46-50	Unweathered bedrock			---	---	---	---	---	---	---	---
WeD: Westmoreland----	0-9	Silt loam	CL, ML	A-4, A-6	---	0	85-100	80-100	75-95	60-95	15-35	NP-10
	9-36	Silty clay loam, channery loam, shaly silt loam	CL, GC, GM, ML	A-4, A-6, A-7	---	0-15	65-100	55-95	50-90	45-85	22-45	2-20
	36-46	Very channery loam, very channery silt loam, shaly silty clay loam	GC, GM, SC, SM	A-1, A-2, A- 4, A-6	---	0-20	25-95	20-95	15-90	15-80	20-40	2-20
	46-50	Unweathered bedrock			---	---	---	---	---	---	---	---

Table H.--Engineering Index Properties--Continued

[illegible]